IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:) CERTIFICATE OF MAILING) <u>BY "EXPRESS MAIL"</u>
Shunpei YAMAZAKI, et al.) "Express Mail" Mailing Label: <u>EL845496666US</u>
Serial No.:) Date of Deposit December 3, 2001
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Art Unit:) BOX PATENT APPLICATION U.S. Patent and Trademark Office P.O. Box 2327 Arlington, VA 22202
For: ELECTROOPTICAL DISPLAY DEVICE) NAME Yue Ruan (TYPED OR PRINTED)
	SIGNATURE York
	DATE: December 3, 2001
Commissioner for Patents	

PRELIMINARY AMENDMENT

Please enter the following Preliminary Amendment in the above-identified patent application prior to substantive examination.

On page 1, before the first paragraph of the application, please insert the following:

-- This is a divisional of prior U.S. Application Serial No. 09/329,597, filed June 10, 1999.--

IN THE CLAIMS:

Washington, D.C. 20231

Please add the following new claims:

--36 (New). A method of manufacturing a display device comprising the steps of: forming a thin film transistor over a substrate; forming a pixel electrode electrically connected to the thin film transistor; forming a body with a textured surface on the pixel electrode; and forming a light reflection film on the body with the textured surface.

37 (New). A method according to claim 36, wherein the pixel electrode comprises at least one of Al and Ag.

38 (New). A method according to claim 36, wherein the body with the textured surface comprises at least one material selected from the group consisting of SiO₂, MgF₂, Na₃AlF₆, an acrylic resin, and polyimide.

39 (New). A method according to claim 36, wherein the body with the textured surface has an uneven portion of 1 μ m or less in height on the surface.

40 (New). A method according to claim 36, wherein the light reflection film comprises at least one material selected from the group consisting of ${\rm TiO_2}$, ${\rm ZrO_2}$, ${\rm Ta_2O_5}$, ${\rm ZnS}$, ${\rm ZnSe}$, ${\rm ZnTe}$, ${\rm Si}$, ${\rm Ge}$, ${\rm Y_2O_3}$, ${\rm Al_2O_3}$, and Indium Tin Oxide.

41 (New). A method according to claim 36, wherein the display device is a reflection type liquid crystal display device.

42 (New). A method according to claim 36, wherein the display device is incorporated in at least one selected from the group consisting of a portable telephone, a video camera, a mobile computer, a head mount display, projector, a personal computer, a goggle type display, a player apparatus, and a digital camera.

43 (New). A method of manufacturing a display device comprising the steps of: forming a thin film transistor over a substrate; forming a pixel electrode electrically connected to the thin film transistor; forming a body with a textured surface on the pixel electrode; forming a light reflection film on the body with the textured surface; and flattening a surface of the light reflection film by a CMP process.

44 (New). A method according to claim 43, wherein the pixel electrode comprises at least one of Al and Ag.

45 (New). A method according to claim 43, wherein the body with the textured surface comprises at least one material selected from the group consisting of SiO₂, MgF₂, Na₃AlF₆, an acrylic resin, and polyimide.

46 (New). A method according to claim 43, wherein the body with the textured surface has an uneven portion of 1 μm or less in height on the surface.

47 (New). A method according to claim 43, wherein the light reflection film comprises at least one material selected from the group consisting of TiO₂, ZrO₂, Ta₂O₅, ZnS, ZnSe, ZnTe, Si, Ge, Y₂O₃, Al₂O₃, and Indium Tin Oxide.

48 (New). A method according to claim 43, wherein the display device is a reflection type liquid crystal display device.

49 (New). A method according to claim 43, wherein the display device is incorporated in at least one selected from the group consisting of a portable telephone, a video camera, a mobile computer, a head mount display, projector, a personal computer, a goggle type display, a player apparatus, and a digital camera.

50 (New). A method of manufacturing a display device comprising the steps of: forming a thin film transistor over a substrate;

forming a pixel electrode electrically connected to the thin film transistor;

forming a body with a textured surface on the pixel electrode; and

forming a light reflection film on the body with the textured surface,

wherein the light reflection film has a higher refractive index than the body with the textured surface.

51 (New). A method according to claim 50, wherein the pixel electrode comprises at least one of Al and Ag.

52 (New). A method according to claim 50, wherein the body with the textured surface comprises at least one material selected from the group consisting of SiO₂, MgF₂, Na₃AlF₆, an acrylic resin, and polyimide.

53 (New). A method according to claim 50, wherein the body with the textured surface has an uneven portion of 1 μm or less in height on the surface.

54 (New). A method according to claim 50, wherein the light reflection film comprises at least one material selected from the group consisting of TiO₂, ZrO₂, Ta₂O₅, ZnS, ZnSe, ZnTe, Si, Ge, Y₂O₃, Al₂O₃, and Indium Tin Oxide.

55 (New). A method according to claim 50, wherein the display device is a reflection type liquid crystal display device.

56 (New). A method according to claim 50, wherein the display device is incorporated in at least one selected from the group consisting of a portable telephone, a video camera, a mobile computer, a head mount display, projector, a personal computer, a goggle type display, a player apparatus, and a digital camera.

57 (New). A method of manufacturing a display device comprising the steps of:

forming an insulated gate field effect transistor on a semiconductor substrate;

forming a pixel electrode electrically connected to the insulated gate filed effect transistor;

forming a body with a textured surface on the pixel electrode; and forming a light reflection film on the body with the textured surface.

58 (New). A method according to claim 57, wherein the pixel electrode comprises at least one of Al and Ag.

- 59 (New). A method according to claim 57, wherein the body with the textured surface comprises at least one material selected from the group consisting of SiO₂, MgF₂, Na₃AlF₆, an acrylic resin, and polyimide.
- 60 (New). A method according to claim 57, wherein the body with the textured surface has an uneven portion of 1 μ m or less in height on the surface.
- 61 (New). A method according to claim 57, wherein the light reflection film comprises at least one material selected from the group consisting of TiO₂, ZrO₂, Ta₂O₅, ZnS, ZnSe, ZnTe, Si, Ge, Y₂O₃, Al₂O₃, and Indium Tin Oxide.
- 62 (New). A method according to claim 57, wherein the display device is a reflection type liquid crystal display device.
- 63 (New). A method according to claim 57, wherein the display device is incorporated in at least one selected from the group consisting of a portable telephone, a video camera, a mobile

computer, a head mount display, projector, a personal computer, a goggle type display, a player apparatus, and a digital camera.

64 (New). A method of manufacturing a display device comprising the steps of:
forming an insulated gate field effect transistor on a semiconductor substrate;
forming a pixel electrode electrically connected to the insulated gate field effect transistor;
forming a body with a textured surface on the pixel electrode;
forming a light reflection film on the body with the textured surface; and
flattening a surface of the light reflection film by a CMP process.

- 65 (New). A method according to claim 64, wherein the pixel electrode comprises at least one of Al and Ag.
- 66 (New). A method according to claim 64, wherein the body with the textured surface comprises at least one material selected from the group consisting of SiO₂, MgF₂, Na₃AlF₆, an acrylic resin, and polyimide.
- 67 (New). A method according to claim 64, wherein the body with the textured surface has an uneven portion of 1 μm or less in height on the surface.

surface.

68 (New). A method according to claim 64, wherein the light reflection film comprises at least one material selected from the group consisting of TiO₂, ZrO₂, Ta₂O₅, ZnS, ZnSe, ZnTe, Si, Ge, Y₂O₃, Al₂O₃, and Indium Tin Oxide.

69 (New). A method according to claim 64, wherein the display device is a reflection type liquid crystal display device.

70 (New). A method according to claim 64, wherein the display device is incorporated in at least one selected from the group consisting of a portable telephone, a video camera, a mobile computer, a head mount display, projector, a personal computer, a goggle type display, a player apparatus, and a digital camera.

71 (New). A method of manufacturing a display device comprising the steps of: forming an insulated gate field effect transistor on a semiconductor substrate; forming a pixel electrode electrically connected to the insulated gate field effect transistor; forming a body with a textured surface on the pixel electrode; and forming a light reflection film on the body with the textured surface, wherein the light reflection film has a higher refractive index than the body with the textured

72 (New). A method according to claim 71, wherein the pixel electrode comprises at least one of Al and Ag.

73 (New). A method according to claim 71, wherein the body with the textured surface comprises at least one material selected from the group consisting of SiO₂, MgF₂, Na₃AlF₆, an acrylic resin, and polyimide.

74 (New). A method according to claim 71, wherein the body with the textured surface has an uneven portion of 1 μ m or less in height on the surface.

75 (New). A method according to claim 71, wherein the light reflection film comprises at least one material selected from the group consisting of TiO₂, ZrO₂, Ta₂O₅, ZnS, ZnSe, ZnTe, Si, Ge, Y₂O₃, Al₂O₃, and Indium Tin Oxide.

76 (New). A method according to claim 71, wherein the display device is a reflection type liquid crystal display device.

77 (New). A method according to claim 71, wherein the display device is incorporated in at least one selected from the group consisting of a portable telephone, a video camera, a mobile computer, a head mount display, projector, a personal computer, a goggle type display, a player apparatus, and a digital camera.--

REMARKS

This is a Preliminary Amendment to the above-identified patent application.

Respectfully submitted,

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